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मानक

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IS 3213 (1991): Engineers' drawing instruments, handles
[PGD 22: Educational Instruments and Equipment]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
इंजीनियर आरेख उपकरण — हैंडल — विशिष्ट
(पहला पुनरीक्षण)

Indian Standard
ENGINEERS' DRAWING INSTRUMENTS —
HANDLES—SPECIFICATION
(*First Revision*)

UDC 744.34 : 621-229.21

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Optical and Mathematical Instruments Sectional Committee had been approved by the Light Mechanical Engineering Division Council.

This standard is one of a series of Indian Standards relating to drawing instruments. Handle is a drawing instrument accessory used by draughtsmen and engineers for using it as a drawing pen or pricker by attaching needle or pen points.

The standard was first published in 1965. This revision is based on further experience gained in the manufacture of drawing instruments and other developments in this field. In this revision depth of 12 mm has been modified to 13 mm and dia of opening 3 mm to 3.5/4.0 mm.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off values should be the same as that of the specified value in this standard.

Indian Standard

ENGINEERS' DRAWING INSTRUMENTS — HANDLES — SPECIFICATION

(First Revision)

1 SCOPE

This standard covers the requirements of handles for engineers' drawing instruments.

2 REFERENCES

Indian Standard IS 2500 (Part 1) : 1973 'Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (first revision)' is the necessary adjunct to this standard.

3 MATERIAL

The handles shall be made of light weight suitable material.

4 DIMENSIONS

4.1 The dimensions for handles shall be as specified in Fig. 1.

4.1.1 The diameter for handles may be suitably increased, if provision is made to store needles and pencil leads inside. In such a case a suitable closure shall also be provided.

4.2 The tolerance on interchangeable dimensions shall be such that the mating parts shall have a tight fit.

4.3 The Figure is intended only to illustrate the dimensions, and the design detail is left to the discretion of manufacturer so long as the specified dimensions are maintained.

5 DESIGNATION

Handles shall be designated by the commonly used name, size of hole and number of this standard.

Example

Handles shall be designated as:

Handles 3.5 IS 3213

6 GENERAL REQUIREMENTS

The handles shall have an arrangement for holding the pen points or needle points securely.

7 WORKMANSHIP AND FINISH

Handles shall be fine fluted, smooth and well-finished.

8 TEST

8.1 Dimensional Test

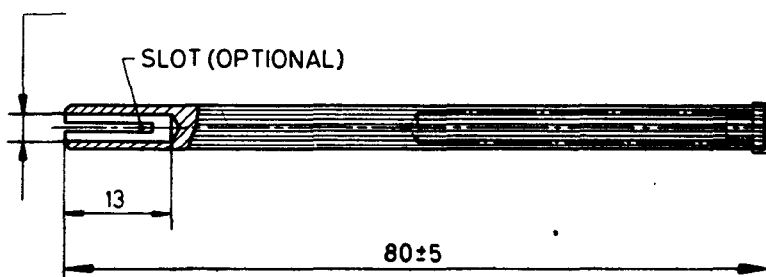
Handles shall be tested for conformity with the requirements as specified in 4.1 and 4.2.

9 SAMPLING

9.1 Lot

In a consignment all the handles of the same type and size, manufactured from same material under similar conditions shall be grouped together to constitute a lot.

9.2 Unless, otherwise, agreed to between the supplier and the purchaser, the procedure given in IS 2500 (Part 1) : 1973 shall be followed for sampling inspection. The inspection level, acceptable quality level (AQL) and type of sampling plan to be followed for various characteristics shall be as given in 9.2.1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS FOR HANDLE

9.2.1 For dimensions, designation, general requirements, workmanship and finish, a single sampling plan with inspection level IV and AQL of 2.5 percent as given in Tables 1 and 2 of IS 2500 (Part 1) : 1973 shall be followed.

10 MARKING

10.1 Handles shall be marked with indication of the source of manufacture. On the handle, further designation, batch No. shall be indicated if packed in container.

10.2 Handles may also be marked with the Standard Mark.

11 PACKING

11.1 Handles shall be first wrapped in paper and then packed in a suitable carton.

11.2 Handles may also be supplied as a part of an instruments set in which case the complete set may be supplied in a suitable box.

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